

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,890	08/02/2006	Markus Mayer	14219-107US1 P2003.0432 U	7206
26161 T590 11/03/2908 FISH & RICHARDSON PC P.O. BOX 1022			EXAMINER	
			TAN, VIBOL	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			2819	
			NOTIFICATION DATE	DELIVERY MODE
			11/03/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

Application No. Applicant(s) 10/563 890 MAYER ET AL. Office Action Summary Examiner Art Unit Vibol Tan 2819 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 11 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) 4-6,16-20 is/are allowed. 6) Claim(s) 1-3 and 7-15 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application

3) Information Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date ______

6) Other:

Art Unit: 2819

DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-3 and 7-15 are rejected under 35 U.S.C.102 (b) as being anticipated by Tsutsumi et al. (U. S. PAT. 6.121.860).

In claim 1, Tsutsumi et al. teaches all claimed features in Fig. 2, an acoustic wave transducer comprising: an acoustic track comprising electrode fingers (9a) for different electrodes (13a, 13b), the electrode fingers engaging to form exciting finger pairs (as seen), the acoustic track comprising marginal areas (signal side bus bar) and an excitation area (excitation section), the electrode fingers engaging in the excitation area, the marginal areas and the excitation area being located along a transverse direction of the acoustic wave transducer (as shown); wherein a longitudinal phase speed (vertical direction) of an acoustic wave in the acoustic track is less in a marginal area (smaller in area) than in the excitation area (Fig. 2 shows excitation area is greater than signal side bus bar where the signal side bus bar equates to the marginal area); wherein the acoustic wave is excitable and has a transversal basic mode (inherent); wherein the following applies in the transversal basic mode for a wave number k_y : $(k_y)^2 > 0$ in a marginal area, and $(k_y)^2 < 0$ in an exterior area outside the acoustic track; and wherein k_y is smaller in the excitation area than in the marginal areas and in the exterior

Art Unit: 2819

area (since Fig. 2 of Tsutsumi teaches all the features as discussed above, Fig. 2 of Tsutsumi must meet the conditions of $(k_y)^2 > 0$ in a marginal area, and $(k_y)^2 < 0$ in an exterior area outside the acoustic track, and wherein k_y is smaller in the excitation area than in the marginal areas and in the exterior area).

In claim 3, Tsutsumi et al. further teaches the acoustic wave transducer of claim 1, wherein the excitation area comprises partial tracks (9a) in the transverse direction (horizontal direction), the partial tracks corresponding to partial transducers that are interconnected in series and/or in parallel.

In claim 7, Tsutsumi et al. further teaches the acoustic wave transducer of claim 1, wherein the marginal areas each comprise a continuous metal strip (vertical side for 13a) in a longitudinal direction and have a transverse width of $\lambda y/4$, where λy is a wavelength of the transversal basic mode in a corresponding marginal area (inherent).

In claim 8, Tsutsumi et al. further teaches the acoustic wave transducer of claim 1, wherein a number of electrode fingers (plurality of 9a) per unit of length is greater in the marginal areas than in the excitation area.

In claim 9, Tsutsumi et al. further teaches the acoustic wave transducer of claim 1, wherein the electrode fingers (9a, 9b) for different electrodes (13a, 13b) define a periodic grid in the excitation area.

In claim 10, Tsutsumi et al. further teaches the acoustic wave transducer of claim 1, wherein the excitation area comprises unidirectionally radiating or reflecting cells (10a, 10b) in a longitudinal direction (vertical direction) of the acoustic wave transducer; and wherein electrode fingers (9a, 9b) in the excitation area that are adjacent in the

Art Unit: 2819

longitudinal direction define a cell to radiate the acoustic wave in a specific direction or a cell with a reflecting effect.

In claim 11, Tsutsumi et al. further teaches the acoustic wave transducer of claim 1, wherein the acoustic track is a first acoustic track, and wherein the acoustic wave transducer further comprises: at least one additional acoustic track (track to the right) comprising an excitation (excitation section) area and marginal areas (right vertical bus bar), the at least one additional acoustic track being substantially identical to the first acoustic track (as seen in Fig. 2), wherein the first acoustic track and the at least one additional acoustic track are substantially parallel (as seen); and an intermediate area (12) between acoustic tracks; wherein widths of marginal areas of the acoustic tracks produce a wave number ky in the intermediate area that is smaller by at least one order of magnitude than in the marginal areas and in exterior areas of the acoustic tracks; and wherein a phase speed in excitation areas of different acoustic tracks and in the intermediate area is essentially same (as seen).

In claim 12, Tsutsumi et al. further teaches the acoustic wave transducer of claim 11, wherein a number of electrode fingers (fingers parallel to 9a or 9b) per unit of length in the intermediate area (12) is essentially equal to a number of electrode fingers per unit of length in excitation areas of different acoustic tracks.

In claim 13, Tsutsumi et al. further teaches the acoustic wave transducer of claim 12, wherein electrode fingers in the intermediate area (12) define a periodic grid (as seen).

Claim 14 corresponds to detailed circuitry already discussed similarly with regard to claim 7.

In claim 15, Tsutsumi et al. further teaches a filter (Fig. 2 is an acoustic wave filter) comprising the acoustic wave transducer of claim 1.

 Amended claims 4-6 and newly added dependent claims 16-20 appear to comprise allowable subject matter.

Response to Arguments

- 4. Applicant's arguments filed 9/11/2008 have been fully considered but they are not persuasive. It is respectfully submitted that the applied reference of Tsutsumi et al. teaches all claimed features of claims 1-3 and 7-15, as discussed above. Applicants argued that Tsutsumi does not disclose or suggest that "a longitudinal phase speed of an acoustic wave in the acoustic track is less in a marginal area than in the excitation area"; however, Applicants' arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Applicants failed to point out how the features of the claims are distinguished from the features of the applied reference, since Applicants merely talked about the reference.
- THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Art Unit: 2819

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/563,890 Page 7

Art Unit: 2819

/Vibol Tan/ Primary Examiner Art Unit 2819